

FIG. 1B

START

An audio bit stream signal is decoded, thereby generating an LFE channel digital audio signal and 1st through n'th channel digital audio signals.

-S101

The LFE channel digital audio signal and the 2nd channel digital audio signal are added together, thereby generating an addition signal.

-S102

-S103

The 1st through n'th channel digital audio signals (excluding the 2nd channel digital audio signal) and the addition signal are D/A—converted into n types of analog audio signals.

-S104

The analog audio signal obtained as a result of D/A conversion of the addition signal is processed by low pass filtering, thereby generating an LFE channel analog audio signal.

-\$105

The analog audio signal obtained as a result of D/A conversion of the addition signal is processed by high pass filtering, thereby generating a 2nd channel analog audio signal.

END ·

-S210

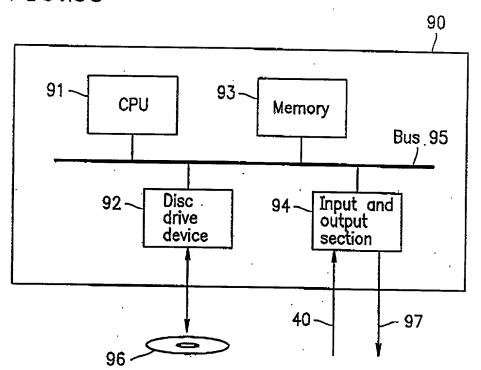
FIG.2BSTART An audio bit stream signal is decoded, thereby generating an LFE channel digital audio signal and 1st through -S201 n'th channel digital audio signals. The 1st through n'th channel digital audio signals are down—mixed into an L channel digital audio signal and S202 an R channel digital audio signal. The LFE channel digital audio signal and the L channel digital audio signal are added together, thereby generating an addition signal. -S203 The LFE channel digital audio signal and the R channel -S204 digital audio signal are added together, thereby generating an addition signal. The addition signal generated in S203 is D/A—converted into an analog audio signal. **-**S205 The addition signal generated in S204 is ·S206 D/A-converted into an analog audio signal. The analog audio signals generated in S205 and S206 are -\$207 added together, thereby generating an analog audio signal. The analog audio signal generated in S207 is processed S208 by low pass filtering, thereby generating an LFE channel analog audio signal. The analog audio signal generated in S205 is processed by high pass filtering, thereby generating an L channel S209

The analog audio signal generated in \$206 is processed by high pass filtering, thereby generating an R channel analog audio signal.

analog audio signal.

END

FIG.2C



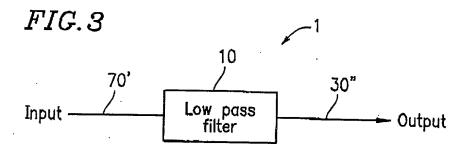
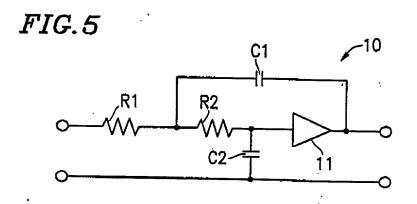


FIG.4 Amplitude / 0dB 200Hz 0 Frequency



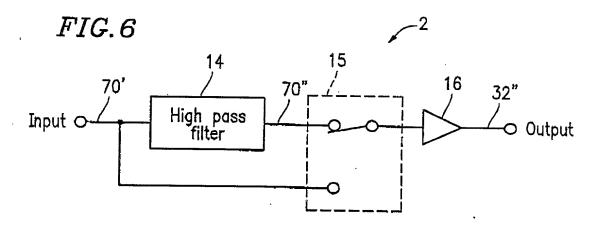
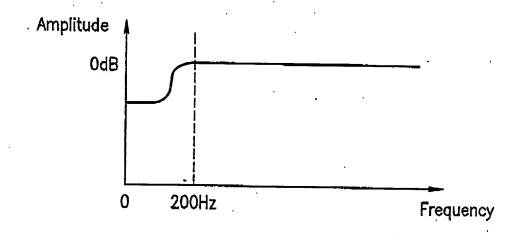
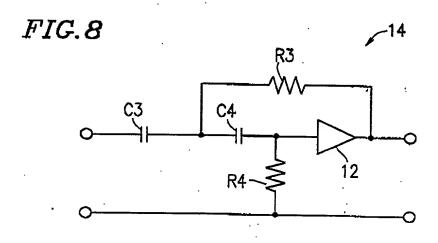


FIG. 7







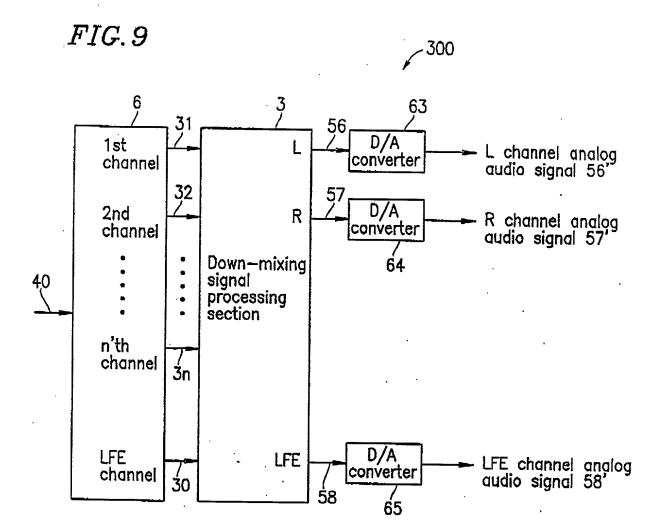


FIG. 10

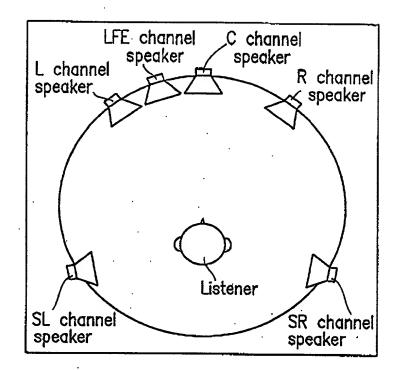


FIG. 11

SL channel digital audio signal 51

L channel digital audio signal 52

C channel digital audio signal 53

R channel digital audio signal 54

SR channel digital audio signal 55

LFE channel digital audio signal 50

